

CLAIMS:

1. A vibratory conveyor which comprises:
 - a machine frame;
 - a two-armed lever mounted on the frame for pivotal movement about an axis;
 - 5 a reaction base mounted on one arm of the lever;
 - a conveyor element adapted to convey a product in a direction from a first end thereof toward a second end;
 - at least one leaf spring connected between the conveyor element and the reaction base and arranged to vibrate so as to cause the conveyor element to convey
 - 10 product as aforesaid; and
 - a sensor disposed between the said one arm and the machine frame for sensing the weight of product on the conveyor element;
 - wherein a line connecting the said axis of pivotal movement and the centre of mass of the conveyor element runs perpendicular to the length of the or each leaf
 - 15 spring.
2. A conveyor according to claim 1, wherein a vibration isolation means is provided between the reaction base and the said one arm of the lever.
- 20 3. A conveyor according to claim 2, wherein the said isolation means comprises at least one spring.
4. A conveyor according to claim 1, wherein the reaction base and the said one arm of the lever are provided by a single component.
- 25 5. A conveyor according to any preceding claim, wherein a contermass is mounted on other arm of the two-armed lever to counterbalance the force applied to the first arm when there is no product on the conveyor element.
- 30 6. A conveyor according to claim 5, wherein the position of the contermass is adjustable along the length of said other arm.

7. A conveyor according to any preceding claim, wherein the weight sensor comprises a load cell.

5 8. A conveyor according to any preceding claim, in combination with means for adding an agent to product on the conveyor element, in dependence on the weight sensed by the weight sensor.

9. A conveyor according to any preceding claim, further comprising at least one additional conveyor element upstream of the first mentioned conveyor
10 element, for transporting product to the latter.

10. A conveyor according to any preceding claim, wherein the sensor receives load from the said one arm via a spring.